

WHAT IS CLAIMED IS:

- 2 1. A method of milling a material comprising:
3 providing a silicon nitride based cutting tool insert;
4 cutting at a cutting speed of 1000-3000 m/min; and
5 feeding at a feeding rate of 0.05-0.5 mm/tooth to a cutting depth of
6 0.2-2 mm,
7 wherein the material comprises aluminum and cast iron.
- 1 2. The method of claim 1, wherein the cutting tool insert has a chip
2 thickness of 0.09-0.17 mm.